

INHERENTLY ELECTROSTATIC DISSIPATING  
BLOCK COPOLYMER COMPOSITIONS

ABSTRACT

5       An acid end-capped, linear inherently electrostatic dissipating block  
copolymer (acid end-capped IDP) composition has from about 95 to about  
99.99 weight percent of an linear inherently electrostatic dissipating block  
copolymer (IDP) and from about 0.01 to about 5 weight percent of an acid  
end-capping reagent having an acid functionality of at least two. The linear  
IDP has from about 5 to about 85 weight percent of a soft segment of a  
10   polyalkylene glycol and from about 15 to about 95 weight percent of a hard  
segment. The hard segment is derived from a polymer having a glass  
transition temperature or crystalline melting temperature greater than  
ambient temperature and being reactive with a hydroxyl functionality. After  
formation of the IDP, the IDP is subsequently modified with the acid end-  
15   capping reagent to form the acid end-capped IDP composition. The acid  
end-capped IDP compositions may be added to thermoplastic base  
materials to form an alloy. Processes for preparing the acid end-capped  
linear IDP compositions and the alloys are provided.